

SEQUENCE LISTING

<110> Miyata, Toshio

<120> A METHOD FOR DETECTING MEGSIN PROTEIN
AND USE THEREOF

<130> SHIM012

<140> To Be Assigned

<141> 2000-03-17

<150> PCT/JP00/01646

<151> 2000-03-17

<150> 11/75305

<151> 1999-03-19

<150> 11/306623

<151> 1999-10-28

<160> 21

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 1867

<212> DNA

<213> Homo sapiens

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cctctctcag attgataagt tgcttcatgt taactctgcc tcaassrusr gnasyuuhs 300
vaasnthraa srggatattg aaactcttct aatagtcagt cagggtcca gtctcaactg 360
gytyrgyasn srsrasnrg nsrgyugnsr gnuaaaagag tttttctga tataaatgca 420
tcccacaagg attatgatct cysargvahn rasasnaasr hsysastyra suagcattgt 480
gaatgggctt ttgctgaaa aagtgtatgg ctttcataag srvaasngyu haaguysvat 540
yrgyhhsyag actacattga gtgtgccgaa aaattatacg atgccaaagt ggagcgaast 600
yrgucysaag uysutyraa aysvaguarg gttgacttta cgaatcattt agaagacact 660
agacgtaata ttaataagva ashthrasnh suguasthra rgargasnas nystgggttg 720
aaaatgaaac acatggcaaa atcaagaacg tgattggtga atrvaguasn guthrhsgyy 780
sysasnvyag guggtgatc aagctcatct gctgtaattg tgctggtgaa tgctgtgtac 840
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 asrcysr 1867

<210> 2
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 <212> PRT
 <213> Homo sapiens

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 35 40 45
 Asp Ser Leu Ser Gln Ile Asp Lys Leu Leu His Val Asn Thr Ala Ser
 50 55 60
 Gly Tyr Gly Asn Ser Ser Asn Ser Gln Ser Gly Leu Gln Ser Gln Leu
 65 70 75 80
 Lys Arg Val Phe Ser Asp Ile Asn Ala Ser His Lys Asp Tyr Asp Leu
 85 90 95
 Ser Ile Val Asn Gly Leu Phe Ala Glu Lys Val Tyr Gly Phe His Lys
 100 105 110
 Asp Tyr Ile Glu Cys Ala Glu Lys Leu Tyr Asp Ala Lys Val Glu Arg
 115 120 125
 Val Asp Phe Thr Asn His Leu Glu Asp Thr Arg Arg Asn Ile Asn Lys
 130 135 140
 Trp Val Glu Asn Glu Thr His Gly Lys Ile Lys Asn Val Ile Gly Glu
 145 150 155 160
 Gly Gly Ile Ser Ser Ala Val Met Val Leu Val Asn Ala Val Tyr
 165 170 175
 Phe Lys Gly Lys Trp Gln Ser Ala Phe Thr Lys Ser Glu Thr Ile Asn
 180 185 190
 Cys His Phe Lys Ser Pro Lys Cys Ser Gly Lys Ala Val Ala Met Met
 195 200 205
 His Gln Glu Arg Lys Phe Asn Leu Ser Val Ile Glu Asp Pro Ser Met
 210 215 220
 Lys Ile Leu Glu Leu Arg Tyr Asn Gly Gly Ile Asn Met Tyr Val Leu
 225 230 235 240
 Leu Pro Glu Asn Asp Leu Ser Glu Ile Glu Asn Lys Leu Thr Phe Gln
 245 250 255
 Asn Leu Met Glu Trp Thr Asn Pro Arg Arg Met Thr Ser Lys Tyr Val
 260 265 270
 Glu Val Phe Phe Pro Gln Phe Lys Ile Glu Lys Asn Tyr Glu Met Lys
 275 280 285
 Gln Tyr Leu Arg Ala Leu Gly Leu Lys Asp Ile Phe Asp Glu Ser Lys
 290 295 300
 Ala Asp Leu Ser Gly Ile Ala Ser Gly Gly Arg Leu Tyr Ile Ser Arg

305 310 315 320
 Met Met His Lys Ser Tyr Ile Glu Val Thr Glu Glu Gly Thr Glu Ala
 325 330 335
 Thr Ala Ala Thr Gly Ser Asn Ile Val Glu Lys Gln Leu Pro Gln Ser
 340 345 350
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<220>
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<400> 3
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<210> 4
 <211> 17
 <212> DNA
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 sequence

<400> 4
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<210> 5
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 sequence

<400> 5
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sequence

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<223> Artificially synthesized antisense primer sequence

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<400> 9
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<210> 10
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<223> Artificially synthesized domain peptide of human
megsin

<400> 11
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<210> 12
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Artificially synthesized domain peptide of human
megsin

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<210> 13
<211> 16
<212> PRT
<213> Artificial Sequence

<220>
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megsin

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<210> 14
<211> 16
<212> PRT
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<220>
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megsin

<400> 14
Asn Leu Met Glu Trp Thr Asn Pro Arg Arg Met Thr Ser Lys Tyr Val
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<210> 15
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<213> Artificial Sequence

<220>

<223> Artificially synthesized domain peptide of human
megsin

<400> 15

Ser Asn Ile Val Glu Lys Gln Leu Pro Gln Ser Thr Leu Phe Arg
1 5 10 15

<210> 16

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<212> PRT

<213> Artificial Sequence

<220>

<223> Artificially synthesized domain peptide of human
megsin

<400> 16

Leu Gly Leu Gln Tyr Gln Leu Lys Arg Val Leu Ala Asp
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<210> 17

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> Artificially synthesized domain peptide of human
megsin

<400> 17

Glu Ser Asn Ile Val Glu Lys Leu Leu Pro Glu Ser Thr Val
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<210> 18

<211> 1938

<212> RNA

<213> Rattus norvegicus

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gagcctaate cgttgggtg ctsrsrusrh thraausrua rgugyaacga ggtgactgtn 240
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shsrccatca agacaaggga attcatcgaa cagtcagcta ggactgcaat atrsrarggn 360
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tcataaggat nnnngnuysar gvauaaasas nsrshsysa saaaaactca gcattgccaa 480
tggagttttt gcagagaaaag tatttgattt tysusraas ngvahaagu ysvahashca 540
taagagctat atggagtgtg ctgaaaactt atacaatgct aaagtghsys srtyrmtguc 600
ysaaguasnu tyrasnaays vagaaagagt tgattttaca aatgatatac aagaaaccag 660
atttaaaatt guargvaash thrasnasgn guthrarghy saataaatgg attgaaaatg 720

aaacacatgg caaaatcaag aaggtgttgat strguas nguthrhsgy ysysysvaug 780
 gggacagcag cctcagctca tcagctgtca tggctagt gaatgctgya ssrsrusr 840
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 tcatcttatt tactggcaaa gtctcgtgc ctysasngyu hthrgyysva srcysrtgaa 1860
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<210> 19
 <211> 380
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 <213> Rattus norvegicus

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 35 40 45
 Asp Cys Xaa Arg Gln Ile Asp Lys Ala Leu His Phe Ile Ser Pro Ser
 50 55 60
 Arg Gln Gly Asn Ser Ser Asn Ser Gln Leu Gly Leu Gln Tyr Gln Leu
 65 70 75 80
 Lys Arg Val Leu Ala Asp Ile Asn Ser Ser His Lys Asp Xaa Lys Leu
 85 90 95
 Ser Ile Ala Asn Gly Val Phe Ala Glu Lys Val Phe Asp Phe His Lys
 100 105 110
 Ser Tyr Met Glu Cys Ala Glu Asn Leu Tyr Asn Ala Lys Val Glu Arg
 115 120 125
 Val Asp Phe Thr Asn Asp Ile Gln Glu Thr Arg Phe Lys Ile Asn Lys
 130 135 140
 Trp Ile Glu Asn Glu Thr His Gly Lys Ile Lys Lys Val Leu Gly Asp
 145 150 155 160
 Ser Ser Leu Ser Ser Ser Ala Val Met Val Leu Val Asn Ala Val Tyr
 165 170 175
 Phe Lys Gly Lys Trp Lys Ser Ala Phe Thr Lys Ser Asp Thr Leu Ser
 180 185 190
 Cys His Phe Arg Ser Pro Ser Gly Pro Gly Lys Ala Val Asn Met Met
 195 200 205
 His Gln Glu Arg Arg Phe Asn Leu Ser Thr Ile Gln Glu Pro Pro Met

210 215 220
 Gln Ile Leu Glu Leu Gln Tyr His Gly Ile Ser Met Tyr Ile Met
 225 230 235 240
 Leu Pro Glu Asp Asp Leu Ser Glu Ile Glu Ser Lys Leu Ser Phe Gln
 245 250 255
 Asn Leu Met Asp Trp Thr Asn Ser Arg Lys Met Lys Ser Gln Tyr Val
 260 265 270
 Asn Val Phe Leu Pro Gln Phe Lys Ile Glu Lys Asp Tyr Glu Met Arg
 275 280 285
 Ser His Leu Lys Ser Val Gly Leu Glu Asp Ile Phe Val Glu Ser Arg
 290 295 300
 Ala Asp Leu Ser Gly Ile Ala Ser Gly Gly Arg Leu Tyr Val Ser Lys
 305 310 315 320
 Leu Met His Lys Ser Leu Ile Glu Val Ser Glu Glu Gly Thr Glu Ala
 325 330 335
 Thr Ala Ala Thr Glu Ser Asn Ile Val Glu Lys Leu Leu Pro Glu Ser
 340 345 350
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 355 360 365
 Gly Ile Ile Leu Phe Thr Gly Lys Val Ser Cys Pro
 370 375 380

<210> 20
 <211> 1848
 <212> DNA
 <213> Mus Musculus

<400> 20
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 ttgcagaaa aagtctatas tyrguusraa thrgyvaha guysvatyrg actttcataa 480
 gaactacatt gactgtgctg aaaacttata caatgctash hsysasntyr gucysaagua 540
 snutyraasna aaaagtgga agagttgact tcacaaatga tgtacaagat accagattty 600
 svaguargva ashthrasna svagnasthr arghaaaatt aataaatgga ttgaaaatga 660
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rhguvasrgu guggcactga agccactgcacagaaa ataacattgt tgaaaagcag 1620
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 ccgaccgccc ctttctgttt gtcurgusrt hrvahargaa asargrhuhv aatcaagaag 1740
 aatgacatca tcttatttac tggcaaagtc tctgtccty sysasnasuh thrgyysvas 1800
 rcysrtgaaa ttcgatttgg tttcctatac agtaacaggc atcaagaa 1848

<210> 21
 <211> 368
 <212> PRT
 <213> Mus musculus

<400> 21
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 Gly Ala Arg Gly Asp Cys Ala Arg Gln Ile Asp Lys Ala Leu His Phe
 35 40 45
 Asn Ile Pro Ser Arg Gln Gly Asn Ser Ser Asn Asn Gln Pro Gly Leu
 50 55 60
 Gln Tyr Gln Leu Lys Arg Val Leu Ala Asp Ile Asn Ser Ser His Lys
 65 70 75 80
 Asp Tyr Glu Leu Ser Ile Ala Thr Gly Val Phe Ala Glu Lys Val Tyr
 85 90 95
 Asp Phe His Lys Asn Tyr Ile Glu Cys Ala Glu Asn Leu Tyr Asn Ala
 100 105 110
 Lys Val Glu Arg Val Asp Phe Thr Asn Asp Val Gln Asp Thr Arg Phe
 115 120 125
 Lys Ile Asn Lys Trp Ile Glu Asn Glu Thr His Gly Lys Ile Lys Lys
 130 135 140
 Val Leu Gly Asp Ser Ser Leu Ser Ser Ala Val Met Val Leu Val
 145 150 155 160
 Asn Ala Val Tyr Phe Lys Gly Lys Trp Lys Ser Ala Phe Thr Lys Thr
 165 170 175
 Asp Thr Leu Ser Cys Arg Phe Arg Ser Pro Thr Cys Pro Gly Lys Val
 180 185 190
 Val Asn Met Met His Gln Glu Arg Arg Phe Asn Leu Ser Thr Ile Gln
 195 200 205
 Gln Pro Pro Met Gln Val Leu Glu Leu Gln Tyr His Gly Gly Ile Ser
 210 215 220
 Met Tyr Ile Met Leu Pro Glu Asp Gly Leu Cys Glu Ile Glu Ser Lys
 225 230 235 240
 Leu Ser Phe Gln Asn Leu Met Asp Trp Thr Asn Arg Arg Lys Met Lys
 245 250 255
 Ser Gln Tyr Val Asn Val Phe Leu Pro Gln Phe Lys Ile Glu Lys Asn
 260 265 270
 Tyr Glu Met Thr His His Leu Lys Ser Leu Gly Leu Lys Asp Ile Phe
 275 280 285
 Asp Glu Ser Ser Ala Asp Leu Ser Gly Ile Ala Ser Gly Gly Arg Leu
 290 295 300
 Tyr Val Ser Lys Leu Met His Lys Ser Phe Ile Glu Val Ser Glu Glu
 305 310 315 320
 Gly Thr Glu Ala Thr Ala Ala Thr Glu Asn Asn Ile Val Glu Lys Gln
 325 330 335
 Leu Pro Glu Ser Thr Val Phe Arg Ala Asp Arg Pro Phe Leu Phe Val

340 345 350
Ile Lys Lys Asn Asp Ile Ile Leu Phe Thr Gly Lys Val Ser Cys Pro
355 360 365